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45+2 Climatological Summaries for Selected Stations

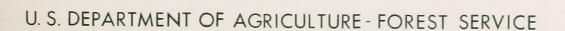
in and near the Southern Pine Region, 1921-1950

> Compiled by Harold W. Hocker, Jr.



SOUTHEASTERN FOREST EXPERIMENT STATION Asheville, North Carolina

> E. L. Demmon, Director



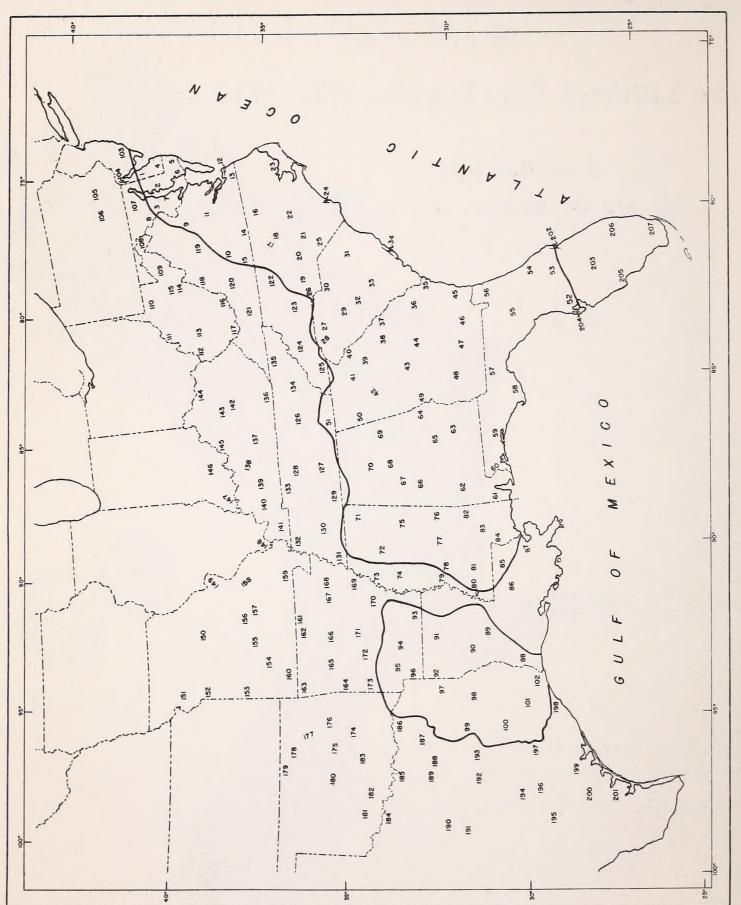


Figure 1. -- Location of the selected stations.

CLIMATOLOGICAL SUMMARIES FOR SELECTED STATIONS IN AND NEAR THE SOUTHERN PINE REGION, 1921-1950

Compiled by
Harold W. Hocker, Jr.
School of Forestry, Duke University

The climatological data in the following tables were assembled and summarized in the course of a study of the relation between climate and the natural distribution of lob-lolly pine. This study was, in part, sponsored by the Southeastern Forest Experiment Station as a cooperative aid project with Duke University School of Forestry. The climatological data are now being made available in the hope that they may be useful to geneticists, silviculturists, ecologists, and others working in the southern pine region.

The climatological stations included were selected to represent equally the region of natural distribution of loblolly pine and an area outside the range of this species but adjacent to it. An attempt was made to obtain insofar as possible a uniform distribution of stations throughout these two regions. As a result, a major portion of the southern pine region is represented. The locations of these stations are plotted by number in figure 1; the names corresponding to these numbers are given in table 3. Of these stations, 83 are first-order U.S. Weather Bureau climatological stations, and 124 are cooperating stations.

The data are based upon U.S. Weather Bureau records for the period 1921 through 1950. In a majority of cases, the averages are based upon records which are complete for the 30-year period, and in no instance is the average based upon a record of fewer than 25 years. The use of records all made within a given 30-year period, it was believed, would take into account any short-term climatic trends and would, at the same time, insure that there was a true basis for statistical comparison of the data for all stations.

Maximum, minimum, and average temperatures and the total monthly precipitation data for the 83 first-order stations were obtained from published "normals" calculated for the period 1921 through 1950. Where possible, all basic data for cooperating stations and frost and precipitation frequency data for all first-order stations were obtained from U.S. Weather Bureau monthly and annual summaries published during the period 1921-1950. These data, with the exception of frost occurrence, were recorded for each month for which the data were available within the period. In instances where at least a 25-year record within the period 1921-1950 could not be obtained for any climatic factor from the published records, the station observer's original records were consulted, and a record of 25 years or more was thus completed. From these basic data, average monthly values were calculated for each factor; annual values were then determined from the twelve monthly averages.

The author wishes to acknowledge the many courtesies extended by the staff of the National Weather Records Center, Asheville, N.C., in making available climatological records. Grateful acknowledgement is also made to Dr. C. F. Korstian, of Duke University School of Forestry, and to Dr. Carl Ostrom, of the Forest Experiment Station staff, for their interest and cooperation.

^{1/} Doctor of Forestry dissertation, Duke University School of Forestry.

^{2/} U.S. Department of Commerce, Weather Bureau. Monthly normal temperatures, precipitation, and degree days (1921-50). Government Printing Office, Washington, D.C. 1953.

^{3/} On file at the National Weather Records Center, Asheville, North Carolina

TEMPERATURE DATA FOR SELECTED STATIONS IN AND NEAR THE SOUTHERN PINE REGION

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Table 1.

NEAR AND > STATIONS REGION SELECTED PINE SOUTHERN DATA **TEMPERATURE**

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TEMPERATURE DATA FOR SELECTED STATIONS IN AND NEAR THE SOUTHERN PINE REGION

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TEMPERATURE DATA FOR SELECTED STATIONS IN AND NEAR THE SOUTHERN PINE REGION

Table 1. (Continued)

MONTHLY TEMPERATURE	Ylul August September	40 do do	75.6 675.5 68.6 74.2 74.3 67.8 77.8 77.4 77.1 1 64.3 77.9 77.7 77.7 77.9 6.6 77.5 67.5 77.3 67.8 68.8 77.3 77.3 77.3 77.3 77.3 77.3 77.3 7	6 69.8 67.1 6 65.3 60.0 7 65.3 61.5 1 64.1 58.7 1 57.9 52.7 9 68.1 64.0 1 57.9 52.7 9 68.1 68.0 0	53.0 51.3 45.8 63.5 61.7 55.7 62.3 61.1 55.2 65.2 65.2 65.4 49.7 59.8 58.4 52.3 65.1 61.9 55.0 65.1 61.9 55.0 65.3 65.1 63.6 55.0 68.8 56.9 56.9 65.9	68.4 67.0 61.0
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PRECIPITATION DATA FOR SELECTED STATIONS IN AND NEAR THE SOUTHERN PINE REGION

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THE NEAR AND ≷ STATIONS **REGION** SELECTED SOUTHERN PINE DATA PRECIPITATION

(Continued)

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Table

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PRECIPITATION DATA FOR SELECTED STATIONS IN AND NEAR THE SOUTHERN PINE REGION

Table 2. (Continued)

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	February		1.90 2.31 2.55 1.76 1.66	3.24	33.55 3.55 3.55 3.55 3.55 3.55 3.55 3.5	2.27 3.02 1.67 2.50 1.01 1.96 1.28 1.57 1.36	2.24	3.13 3.63 3.52 4.25 4.23	11.04 1.04 1.04 1.04 1.04 1.04 1.04 1.04	2.56
	January		93 93 93	.78	881 881 882 883 877 877 877 877 877 877 877 877 877	25.83 80.83	152	448 3 14 48 3 14 46 48 3 10 3 4 4 6 4 4 6 4 4 6 4 4 6 4 4 6 4 4 6 4 4 6 4 4 6 4 4 6 4 4 6 4 4 6 4 6 4 4 6 6 4 6 6 4 6 6 4 6	20000000000000000000000000000000000000	63
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			MISSOURI Rolla Sch. Salem Seligman Springfield St. Louis	NEW JER Atlantic	NORTH CARC Albemarle Ashewille Charlotte Durham Fayeteville Goldsboro Hickory Highlanderton Now Holland Powe Holland Powe Holland Powe Holland Wilmington Wilmington	OKLAHOMA Ada McAlester Marlow Muskogee Newkirk Okemah Oklahoma (Tulsa Pawhuska	PENNS) Harrisbu Reading	SOUTH CARO Charleston Columbia Florence Greenville Heath Spring Newberry Orangeburg Spartanburg	TENNESSEE Chattanooga Chartanooga Crossville Jackson Jackson Lewisburg Memphis Nashville Rogersville Rogersville Union City Waynesboro	TEXAS

THE NEAR AND > STATIONS REGION PINE FOR SELECTED SOUTHERN DATA PRECIPITATION

(Continued)

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Cape Henry
Charlottesville
Clarksville
Danville
Fredericksburg
Hot Springs
Norfolk
Ratchmond
Ranoke
Ranoke TEXAS (Cont'd Beeville Brownwood Corpus Christi Dallas Easland Fort Worth Galnesville Galveston Greenville Huntsville Huberty Luling Marshall Mexia Nacogdoches Palestine Paris Port Arthur San Antonio Sealy VIRGINIA <u>NO</u> Wichita Falls WEST VIRGI Bayard Gary Gary Huntington Kikins Mannington Martinsburg Parkersburg Parkersburg STATI

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STATION	MAP NO.	COUNTY	LAST FROST IN SPRING	FIRST FROST IN FALL	AVG. LENGTH FROST- FREE SEASON	STATION MAP NO.	COUNTY	LAST FROST IN SPRING	FIRST FROST IN FALL	AVG. LENGTH FROST- FREE SEASON
ALABAMA	40	Calhaur	AVG. DATE	AVG. DATE	DAYS	MISSISSIPPI Booneville 71	Prontice	AVG. DATE	AVG. DATE	DAYS
Anniston Auburn Birmingham Greensboro	69 64 68 66	Calhoun Lee Jefferson Hale	March 26 March 22 March 16 March 12	Nov. 7 Nov. 14 Nov. 10 Nov. 13	226 237 239 246	Brookhaven 81 Clarksdale 73 Forest 77	Prentiss Lincoln Coahoma Scott	March 29 March 16 March 29 March 23	Nov. 2 Nov. 13 Nov. 1 Nov. 6	218 242 217 228
Mobile Montgomery	61 65	Mobile Montgomery	Feb. 16 March 3	Dec. 7 Nov. 19	274	Hattiesburg 83 Jackson 78	Forrest Hinds	March 13 March 15	Nov. 1 Nov. 11	233
St. Bernard Thomasville	70 62	Cullman Clarke	April 8 March 18	Oct. 24 Nov. 10	199	Meridian 76 Moorhead 74	Lauderdale Sunflower	March 19 March 23	Nov. 8 Nov. 4	235 225
Troy Tuscaloosa	63 67	Pike Tuscaloosa	March 15 March 23	Nov. 17 Nov. 9	247 231	Natchez 80 Poplarville 84	Adams Pearl River	March 13 March 6	Nov. 13 Nov. 25	245 264
ARKANSAS		, ,				State College 75 Vicksburg 79	Oktibbeha Warren	March 25 March 8	Nov. 6 Nov. 15	226 252
Bee Branch Camden	166	Van Buren Ouachita	April 4 March 25	Oct. 29 Nov. 8	208 229	Water Valley 72 Waynesboro 82	Yalobusha Wayne	March 31 March 23	Nov. 1 Nov. 5	215 227
Fort Smith Gravette	164	Sebastian Benton	March 21 April 19	Nov. 10 Oct. 22	234 186	MISSOURI	61/			100
Hope Hot Springs	95 172	Hempstead Garland	March 21 March 30	Nov. 7 Nov. 6	231	Clinton 151 Columbia 150 Farmington 158	Clinton Boone St. Francis	April 17 April 10	Oct. 20 Oct. 19	186
Little Rock Lutherville Mammoth Spring	171	Pulaski Johnson Fulton	March 17 April 3	Nov. 13 Oct. 31 Oct. 22	241 211 197	Kansas City 152 Lebanon 155	Jackson Laclede	April 15 April 7 April 21	Oct. 23 Oct. 28 Oct. 20	190 204 182
Mariana Marked Tree	169	Lee Poinsett	April 8 March 23 March 27	Nov. 3 Dec. 4	225	Nevada 153 Poplar Bluff 159	Vernon Butler	April 15 April 10	Oct. 18 Oct. 24	186
Mena Mountain Home	173	Polk Baxter	March 26 April 4	Nov. 8 Oct. 26	227	Rolla Sch. Min.156 Salem 157	Phelps Dent	April 16 April 20	Oct. 24 Oct. 19	191
Newport Portland	167	Jackson Ashley	March 26 March 22	Oct. 31 Nov. 5	219 228	Seligman 160 Springfield 154	Barry Greene	April 14 April 9	Oct. 19 Oct. 25	188
Stuttgart Texarkana	170 96	Arkansas Miller	March 28 March 21	Oct. 30 Nov. 9	216	St. Louis 149	St. Louis	April 3	Oct. 29	209
DELAWARE						NEW JERSEY Atlantic City 103	Atlantic	April 10	Nov. 5	209
Dover Millsboro	1 4	Kent Sussex	April 19 April 21	Oct. 24 Oct. 21	188 183	NORTH CAROLINA		40		
Wilmington	104	New Castle	April 17	Oct. 22	187	Albemarle 19 Asheville 124	Stanly Buncombe	April 11 April 11	Oct. 27 Oct. 23	199
DIST. OF COL Washington	UMBIA 8		April 10	Oct. 27	200	Charlotte 26 Durham 17	Mecklenburg Durham	March 24 April 11	Nov. 8 Oct. 28	228
FLORIDA	E 0	F===1-1 /=	P.1. 11	2 10	205	Fayetteville 21 Goldsboro 22 Hickory 123	Cumberland Wayne Catawba	March 28 April 1	Nov. 5 Nov. 4	222
Apalachicola Avon Park Daytona Beach	58 203 54	Franklin Highlands Volusia	Feb. 11 Jan. 12	Dec. 13 Dec. 25	305 347	Hickory 123 Highlands 125 Lumberton 25	Macon Robeson	April 5 April 22 March 27	Oct. 31 Oct. 23 Nov. 7	209 184 225
De Funiak Sprin Fort Myers		Walton Lee	Jan. 21 March 2	Dec. 24 Nov. 24	337 267 365	New Holland 23 Pinehurst 20	Hyde Moore	March 22 April 2	Nov. 14 Nov. 2	237
Gainesville Jacksonville	55 56	Alachua Duval	Feb. 22 Feb. 15	Dec. 4 Dec. 11	285	Raleigh 18 Weldon 16	Wake Halifax	March 23 April 11	Nov. 9 Oct. 27	231
Melbourne Miami	202	Brevard Dade	Jan. 29	Dec. 20	329 365	Wilmington 24 Winston-Salem 122	New Hanover Forsyth	March 27 April 11	Nov. 15 Oct. 25	237
Orlando Pensacola	53	Orange Escambia	Feb. 3 Feb. 20	Dec. 14 Dec. 9	314 292	OKLAHOMA		.,,		
St. Petersburg Tallahassee	204 57	Pinellas Leon	Jan. 5 Feb. 25	Dec. 29 Dec. 4	363 282	Ada 183 Mc Alester 174	Pontotoc Pittsburg	March 27 March 27	Nov. 6 Nov. 5	224 223
Tampa West Palm Beach	52 206	Hillsborough Palm Beach	Jan. 13	Dec. 27	348 365	Marlow 182 Muskogee 176	Stephens Muskogee	March 30 March 26	Nov. 5 Nov. 4	220 223
GEORGIA						Newkirk 179 Okemah 175	Okfuskee	April 3 March 28	Oct. 31 Nov. 9	211 225
Alapaha Albany	48	Berrien Dougherty	March 10 March 12	Nov. 17 Nov. 16	252 249	Oklahoma City 180 Tulsa 177	Oklahoma Tulsa	March 27 March 27	Nov. 6 Nov. 3	224
Athens Atlanta Augusta		Clarke Fulton Richmond	April 2 March 24	Nov. 5 Nov. 13	217	Pawhuska 178 Wichita Mt. 181	Osage Comanche	April 4 April 10	0ct. 26 0ct. 30	205
Brooklet Brunswick	36 45	Bullock Glynn	March 13 March 15 Feb. 23	Nov. 14 Nov. 15 Dec. 1	247 245 282	PENNSYLVANIA Harrisburg 106	Dauphin	April 10	Oct. 28	201
Columbus Dublin	49	Muscogee Laurens	March 12 March 17	Nov. 16 Nov. 11	249	Reading 105	Berks	April 16	Oct. 26	193
Gainesville Hartwell	41	Hall Hart	April 1 April 2	Oct. 31 Nov. 2	213	SOUTH CAROLINA Charleston 34	Charleston	March 2	Nov. 30	273
Macon Rome	43 50	Bibb Floyd	March 15 March 31	Nov. 16 Nov. 3	246 217	Columbia 32 Florence 31	Lexington Florence	March 17 March 20	Nov. 18 Nov. 11	246 236
Savannah Warrenton	35 38	Chatham Warren	Feb. 26 March 24	Nov. 26 Nov. 10	273 231	Greenville 28 Heath Springs 30	Greenville Lancaster	March 27 March 27	Nov. 10 Nov. 6	228 224
Waycross	46	Ware	March 9	Nov. 18	254	Newberry 29 Orangeburg 33	Newberry Orangeburg	March 29 March 18	Nov. 5 Nov. 14	221
ILLINOIS Cairo	148	Alexander	March 29	Nov. 1	217	Spartanburg 27 TENNESSEE	Spartanburg	March 29	Nov. 5	221
INDIANA Evansville	147	Vanderburgh	April 3	Oct. 30	210	Chattanooga 51 Clarksville 133	Hamilton Montgomery	March 21 April 3	Nov. 11 Oct. 26	235 206
Paoli	146	Orange	April 25	Oct. 16	174	Crossville 126 Jackson 130	Cumberland Madison	April 18 April 6	Oct. 11 Oct. 25	176 202
KENTUCKY Berea College		Madison	April 18	Oct. 19	184	Knoxville 134 Lewisburg 127	Knox Marshall	March 30 April 10	Nov. 2 Oct. 22	217 195
Greensburg Greenville	137 139	Green Muhlenburg	April 21 April 15	Oct. 16 Oct. 20	178 188	Memphis 131 Nashville 128	Shelby Davidson	March 17 March 30	Nov. 10 Oct. 30	238 214
Leitchfield Lexington	138	Grayson Fayette	April 12 April 19	Oct. 21 Oct. 22	192 185	Rogers ville 135 Union City 132	Hawkins Obion	April 18 April 4	Oct. 21 Oct. 26	186 205
Louisville Mayfield	141	Jefferson Graves	April 9 April 7	Oct. 24 Oct. 22	198	Waynesboro 129	Wayne	April 14	Oct. 20	189
Maysville Princeton Williamsburg	144 140 136	Mason Caldwell Whitley	April 21 April 10	Oct. 19 Oct. 23	181	TEXAS Austin 194 Beeville 200	Travis	March 4	Nov. 25	263 283
LOUISIANA	100	HALLEY	April 16	Oct. 21	188	Brownwood 191 Corpus Christi 201	Bee Brown Nueces	Feb. 22 March 25 Jan. 26	Dec. 2 Nov. 12 Dec. 27	232 335
Baton Rouge Cheneyville	86 89	E. Baton Rouge Rapides	Feb. 24 March 9	Nov. 20 Nov. 11	269	Dallas 188 Eastland 190	Dallas Eastland	March 18 March 26	Nov. 17 Nov. 12	244
Hammond Lake Charles	85 88	Tangipahoa Calcasieu	March 8 Feb. 25	Nov. 18 Nov. 26	255 272	Fort Worth 189 Gainesville 185	Tarrant Cooke	March 13 March 27	Nov. 16 Nov. 8	252 226
New Orleans Robeline	87 90	Orleans Natchitoches	Feb. 20 March 24	Dec. 9 Oct. 31	292 221	Galveston 198 Greenville 187	Galveston Hunt	Jan. 21 March 22	Dec. 28 Nov. 12	341 235
Ruston P.T.I. Shreveport	91 92	Lincoln Caddo	March 16 March 8	Nov. 14 Nov. 15	243 252	Huntsville 100 Liberty 101	Walker Liberty	March 8 March 5	Nov. 25 Nov. 26	262 266
MARYLAND	105	0.14				Luling 196 Marshall 97	Caldwell Harrison	March 1 March 17	Nov. 26 Nov. 12	270 240
Baltimore Cheltenham	107	Baltimore Prince Georges	April 7 April 18	Oct. 31 Oct. 20	207 185	Mexis 193 Nacogdoches 98	Limestone Nacogdoches	March 14 March 22	Nov. 20 Nov. 13	251
Crisfield Easton Pol.Brk Snow Hill	s. 2 5	Somerset Talbot Worchester	April 14	Nov. 13 Oct. 26	195	Palestine 99 Paris 186 Port Arthur 102	Anderson Lamar Jefferson	March 7 March 20 Jan. 28	Nov. 23 Nov. 13 Dec. 15	261 238 321
Solomons	7	Calvert	April 17 April 8	Oct. 24 Nov. 7	190 213	San Antonio 195	Bexar	Feb. 24	Dec. 15 Dec. 3	282

FROST-FREE PERIOD FOR SELECTED STATIONS IN AND NEAR THE SOUTHERN PINE REGION

Table 3. (Continued)

STATION MAP NO.	COUNTY	LAST FROST IN SPRING	FIRST FROST IN FALL	AVG. LENGTH FROST- FREE SEASON	STATION	MAP NO.	COUNTY	LAST FROST IN SPRING	FIRST FROST IN FALL	AVG. LENGTH FROST- FREE SEASON
		AVG. DATE	AVG. DATE	DAYS				AVG. DATE	AVG. DATE	DAYS
TEXAS (Cont'd.)					VIRGINIA (Cont'd.)			
Sealy 197	Austin	Feb. 23	Dec. 5	284	Roanoke	120	Roanoke	April 15	Oct. 22	190
Victoria 199	Victoria	Feb. 24	Dec. 4	283	Wytheville	121	Wythe	April 17	Oct. 16	182
Waco 192	McLennan	March 10	Nov. 15	250			1			
Wichita Falls 184	Wichita	March 22	Nov. 14	237	WEST VIRGI	NIA				
					Bayard .	109	Grant	May 25	Sept. 21	119
VIRGINIA					Charleston	113	Kanawha	April 20	Oct. 23	186
Cape Henry 12	Princess Anne	March 21	Nov. 21	245	Gary	117	McDowell	April 26	Oct. 10	167
Charlottes ville 119	Albemarle	April 6	Nov. 5	213	Huntington	112	Cabell	April 17	Oct. 20	186
Clarksville 14	Mecklenburg	April 8	Oct. 27	203	Elkins	115	Randolph	May 9	Oct. 7	150
Danville 15	Pittsylvania	April 4	Oct. 3	209	Mannington	110	Marion	May 9	Oct. 7	151
Fredericksburg 9	Spottsylvania	April 15	Oct. 25	193	Martinsburg	108	Berkeley	April 22	Oct. 16	177
Hot Springs 118	Bath	May 1	Oct. 12	164	Parkersburg	111	Wood	April 18	Oct. 19	184
Lynchburg 10	Campbell	April 4	Oct. 25	204	Pickens	114	Randolph	May 13	Oct. 3	143
Norfolk 13	Norfolk	March 23	Nov. 18	239	Union	116	Monroe	May 10	Oct. 5	148
Richmond 11	Henrico	March 29	Nov. 2	218						



